PMRF-ISSS Teaching Programme

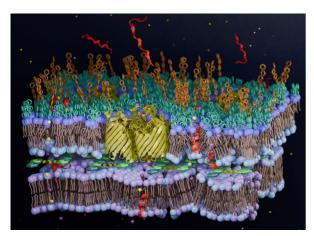
Prime Minister Research Fellowship students' teaching requirement facilitated by the Institute of Smart Structures and Systems

Module PMRF-ISSS034/11/2025 Membrane biophysics

Name of the PMRF student

Amar Krishna Gopinath

Required background of the students taught Physics/Chemistry/Chemical engineering



Source: Sharma et al, Langmuir 2024 40 (15), 7791-7811

Details of the content of the module

The lectures shall be composed of the 7 units:

1. Structure and composition of biomembranes

2. Self-assembly processes- hydrophobic effect

3. Models of bio-membranes: fluid mosaic model and advancements

4. Membrane dynamics: experimental techniques

5. Transport across membranes- active and passive transport

6. Mechanics of membranes

7. Experimental characterisation of biomembranes

Schedule of the module

The course shall be held as a 7-day lecture series

24 Apr 2025 – 30 Apr 2025

5:00 PM to 8:00 PM

Meeting link : Will be shared later

Link

Contact email ID: <u>isss.forum@gmail.com</u>

Registration link: https://forms.gle/V7TptgiAgCBo1xTbA

